4K 16:9 IR Fixed Network Turret Camera

CODE: EAGLE-IPC-8-TUR1-FG

- 8MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8MP (3840 × 2160) @15 fps and supports 2688 × 1520 (2688 × 1520) @25/30 fps
- H.265 codec, high compression rate, and ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, video tampering, audio detection, network disconnection, IP conflict, and illegal access.
- Built-in MIC.
- 12 V DC/PoE power supply.
- IP67 protection.

| 8Mp | Smart Codec | Motion Detection | Smart Illumination | Image Flip | IP67 |

Functions

Smart H.265+ & Smart H.264+
With advanced scene-adaptive rate control algorithms, smart encoding technology provides a higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Motion Detection
When moving objects appear in the monitoring field, motion detection technology triggers an alarm or records.

Smart Illumination
Smart Illumination technology can display images in environments of low illuminance or complete darkness. According to the distance of the targets, the camera adjusts Illumination intensity automatically to display details of the moving target.

Image Flip
For narrow and long scenes, image flip technology flips the image by 90°/180°/270° to give better surveillance in rotation mode.

Cyber Security
These network cameras employ a series of security technologies, including security authentication and authorisation, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.

Protection (IP67, wide voltage)
IP67: The camera passes a series of strict test on dust and soaking. It has dust-proof functionality, and the enclosure works as normal after soaking in 1m deep water for 30 minutes.
Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with unstable voltage.

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Technical Specification

Camera

Image Sensor	1/2.7" CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	16 MB
RAM	256MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.04 Lux@F2.0 (Colour, 30 IRE) 0.004 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)
S/N Ratio	> 56 dB
IR Distance	30 m (98.43 ft) (IR)
IR On/Off Control	Auto/Manual
IR Number	1 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

Lens

Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm
Max. Aperture	2.8 mm: F2.0
Field of View	2.8 mm: Horizontal: 105°; Vertical: 56°; Diagonal: 125°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 1.0 m (3.28 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	74.7 m (245.08 ft)	29.9 m (98.10 ft)	14.9 m (48.88 ft)	7.5 m (24.61 ft)

Video

Video Compression	H.265; H.264; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main stream: 3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Stream Capability	2 streams
Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 ×1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)

Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps
Day/Night	Auto (ICR)/Colour/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

Audio

Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; G.726; PCM

Alarm

Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception

Network

Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Genetec; Milestone
User/Host	6 (Total bandwidth: 48 M)
Storage	FTP
Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B

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Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic: 2.3 W (12V DC); 3.1 W (PoE) Max. (ICR + H.265 + max. resolution + main stream + DWDR + IR intensity): 4.6 W (12V DC); 5.6 W (PoE)

Environment

Operating Temperature	−40 °C to +55 °C (−40 °F to 131 °F)
Operating Humidity	≤ 95%
Storage Temperature	−40 °C to +55 °C (−40 °F to 131 °F)
IP Rating	IP67

Structure

Casing	Metal
Product Dimensions	85.6 mm × Φ94.0 mm (3.4" × Φ3.7")
Net Weight	0.32 kg (0.71 lb)
Gross Weight	0.43 kg (0.95 lb)

Dimensions (mm[inch])